

From: [Heller, Matthew](#)
To: [Juliussen, Lara](#)
Cc: [Lineback, Pat](#); [Lindstrom, James](#); [Rich Young](#); [Kevin Doherty](#); [Sean Finn](#)
Subject: Re: Range Wide Projection Suggestions
Date: Tuesday, May 20, 2014 12:07:01 PM

Lara, regarding the web Mercator question, I originally thought Pat's sentence example would be good to have in the doc, but I'm also fine with waiting on that like you suggest. Web display performance boosts from Web Mercator shouldn't be needed for generic purposes. If there are specialized web maps, then there would be a need and developers would know this in advance.

M.

On Tue, May 20, 2014 at 9:05 AM, Juliussen, Lara <lara_juliussen@fws.gov> wrote:

It sounds like we are all in agreement regarding stating a general preferred/recommended projection of Albers NAD 83. I would tend to say no to the central meridian, unless we say something like, "Albers NAD 83, Contiguous USA with a central meridian of -96.0, and first and second standard parallels of 29.5 and 45.5" so as to avoid ambivalence. Jim, would you mind writing up a straw man for this section in the document? I've put in a stub.

https://docs.google.com/a/doi.gov/document/d/1gYrZ1Gv_rnxAkPj6na5CC0mDv6wm0diV45iU0Pp0t4o/edit?usp=sharing

Oh, Matt and Sean, did you have an opinion on Pat's thoughts regarding using Web Mercator? I'm thinking we aren't going to be creating web services for any of these data (received models and inputs) at this point, so my thought is we just wait on that, but it is a good question.

Lara

Lara Juliussen, Geographer/Ecologist
Sage-grouse Energy Team
U.S. Fish and Wildlife Service,
Region 6, Lakewood, CO
Lara_Juliussen@fws.gov
303-236-9876

On Mon, May 19, 2014 at 10:31 AM, Heller, Matthew <matthew_heller@fws.gov> wrote:

Regarding Pat's questions,

I like the idea of stating "preference" or "recommendation". North American Albers NAD83 as a general recommendation sounds good to me. Should we go as far as a central meridian suggestion (e.g. 105 deg. W) or is that overkill? I agree NAD27 is something to discourage, it can be handled in ArcGIS but can trip a lot of users up. The last NAD 27 data I came across was Little's data (<http://esp.cr.usgs.gov/data/little/>) (http://esp.cr.usgs.gov/data/little/vegmaps_met.shtml) when checking into big sagebrush range. Hopefully NAD 27 is only isolated to some old base layer data. I'm guessing finer scale datasets, from data providers, may originally be in UTM NAD83 and broader scale datasets will be Albers NAD83.

I think it would be good to add in Pat's web service delivery sentence.

M.

On Wed, May 14, 2014 at 9:59 AM, Lineback, Pat <pat_lineback@fws.gov> wrote:

It seems reasonable to state a "preference" or "recommendation", but perhaps not hold people to it

because there might be some uncertainty on some of the outputs being produced? So Albers NAD83 could be strawman?? NAD 27 is something to discourage as I'm guessing there might be transformation issues between datums inside of ArcGIS? Probably, not significant, but wondering why someone would use an older datum?

If uploading to science base, to optimize for any web services delivery (REST, WMS), the best is web mercator auxiliary sphere. Should we address that?

On Wed, May 14, 2014 at 6:48 AM, Lindstrom, James <james.lindstrom@fws.gov> wrote:

A question for the group, and follow up to some of yesterday's discussion. Are there any suggested projections for range wide mapping work for Greater Sage-Grouse? I've done work using NAD 1983 Albers and I've received some data set to NAD 1927 Albers. Are there preferences? Other projections better suited for this type of mapping/analysis work?

Thanks,
Jim

Jim Lindstrom
james.lindstrom@fws.gov
Cartographer
U.S. Fish & Wildlife Service
Wyoming Ecological Services Field Office
(307) 772-2374 (Ext 240)

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Pat Lineback
Regional GIS Coordinator
U.S. Fish and Wildlife Service, Department of Interior
2800 Cottage Way, Room W-2606
Sacramento, CA 95825
Ph: 916-414-6559
Cell: 916-765-3755
E-mail: pat_lineback@fws.gov

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Matt Heller
Data Manager/GIS Administrator/Cartographer, USFWS
Great Northern Landscape Conservation Cooperative
2327 University Way, Suite 2
Bozeman, MT 59715

Phone: 406-994-7333
Matthew_Heller@fws.gov
greatnorthernlcc.org

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Matt Heller
Data Manager/GIS Administrator/Cartographer, USFWS

Great Northern Landscape Conservation Cooperative
2327 University Way, Suite 2
Bozeman, MT 59715

Phone: 406-994-7333
Matthew_Heller@fws.gov
greatnorthernlcc.org